Recombinant Human KIR3DL2 protein, His & GST-tagged

Cat. No. KIR3DL2-5708H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KIR3DL2 aa. (Pro184~Glu435 (Accession # P43630)) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Pro184~Glu435
Description	Killer cell immunoglobulin-like receptors (KIRs) are transmembrane glycoproteins expressed by natural killer cells and subsets of T cells. The KIR genes are polymorphic and highly homologous and they are found in a cluster on chromosome 19q13.4 within the 1 Mb leukocyte receptor complex (LRC). The gene content of the KIR gene cluster varies among haplotypes, although several "framework" genes are found in all haplotypes (KIR3DL3, KIR3DP1, KIR3DL4, KIR3DL2). The KIR proteins are classified by the number of extracellular immunoglobulin domains (2D or 3D) and by whether they have a long (L) or short (S) cytoplasmic domain. KIR proteins with the long cytoplasmic domain transduce inhibitory signals upon ligand binding via an immune tyrosine-based inhibitory motif (ITIM), while KIR proteins with the short cytoplasmic domain lack the ITIM motif and instead associate with the TYRO protein tyrosine kinase binding protein to transduce activating signals. The ligands for several KIR proteins are subsets of HLA class I molecules; thus, KIR proteins are thought to play an important role in regulation of the immune response. This gene is one of the "framework" loci that is present on all haplotypes. Alternatively spliced transcript

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	variants encoding multiple isoforms have been observed for this gene.
Form	Freeze-dried powder
Molecular Mass	66kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1μg (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 6.3.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in ddH2O.

GENE INFORMATION

Gene Name	KIR3DL2 killer cell immunoglobulin like receptor, three Ig domains and long cytoplasmic tail 2 [Homo sapiens (human)]

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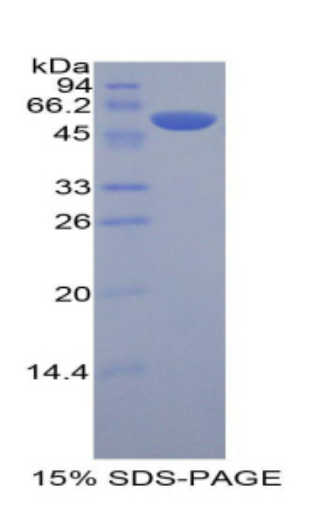
Official Symbol	KIR3DL2
Synonyms	KIR3DL2; killer cell immunoglobulin like receptor, three Ig domains and long cytoplasmic tail 2; 3DL2; p140; NKAT4; CD158K; NKAT-4; NKAT4B; KIR-3DL2; killer cell immunoglobulin-like receptor 3DL2; CD158 antigen-like family member K; KIR antigen 3DL2; MHC class I NK cell receptor; killer Ig receptor; killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 2; killer-cell immunoglobulin-like receptor; natural killer-associated transcript 4; p70 NK receptor CL-5; p70 killer cell inhibitory receptor; p70 natural killer cell receptor clone CL-5
Gene ID	3812
mRNA Refseq	NM_001242867.1
Protein Refseq	NP_001229796.1
UniProt ID	P43630
SDS-PAGE	

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